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Manufacturers' Shipments, Inventories, and Orders

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(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in January rose \$5.4 billion or 3.6 percent to \$155.1 billion the Department of Commerce, Bureau of the Census reported today. This is the largest 1-month increase since the 3.9 percent rise recorded in October 1978.

Orders for manufacturers' durable goods were up \$3.7 billion or 4.8 percent to \$81.5 billion. The most significant increases were in the primary metals category. New orders for nonferrous metals were up \$1.1 billion or 20.3 percent, while steel orders increased \$1.0 billion or 19.1 percent. Companies reported that significant price increases in steel, aluminum, copper, and precious metals caused much of the increases. The steel industry whose orders were quite volatile in 1979, had reported declines of 3.3 percent and 8.9 percent in November and December. New orders for machinery were also up significantly in January. Both the electrical and nonelectrical sectors reported \$0.8 billion increases.

A sizable decline in new orders occurred in the transportation equipment industries, down \$1.0 billion or 6.0 percent to \$16.3 billion. The drop resulted mostly from a decline in aircraft orders of 19.9 percent. December orders for that industry were up 21 percent from the November level. Without the decline in the transportation industry, new orders for durable goods were up 7.9 percent.

New orders for nondefense capital goods were up \$0.4 billion or 1.6 percent to \$23.2 billion. The large increases in orders for machinery and other transportation equipment were partially offset by the decline in commercial aircraft orders. Defense capital goods orders dropped 5.2 percent, revised from the 2.8 percent decline reported earlier. New orders for the household durable goods industries as a group were up 9.1 percent with virtually all industries contributing to the rise.

Shipments of manufactured goods rose \$5.0 billion or 3.4 percent in January to \$151.3 billion. In the durable goods industries increases were widespread. Primary metals shipments

were up 7.2 percent, mostly attributable to a \$0.6 billion or 11.9 percent increase in the nonferrous industries. Transportation was up 4.0 percent. The automotive industry had its first significant increase in shipments since last May.

Shipments by the nondurable goods industries were up \$1.5 billion or 2.1 percent to \$73.8 billion. Increases in paper, petroleum, rubber and plastics, and leather were partially offset by declines in the food and apparel industries.

The backlog of manufacturers' orders in January rose \$3.8 billion or 1.4 percent to \$282.6 billion. The largest increases occurred in machinery, up \$1.7 billion or 1.8 percent; aircraft, up \$1.4 billion or 1.8 percent; and primary metals, up \$0.9 billion or 3.2 percent. The only declines came from the automotive, fabricated metal products, and shipbuilding industries.

The book value of manufacturers' inventories rose \$4.2 billion or 1.8 percent to \$232.0 billion, the largest 1-month increase since December 1974. The largest increases in the durable goods industries were reported by producers of non-electrical machinery, up \$0.7 billion; aircraft, up \$0.6 billion; and electrical machinery, up \$0.4 billion. Inventories of non-durable goods manufacturers rose \$1.8 billion or 2.3 percent to \$78.3 billion. The inventory to shipments ratio for January dropped to 1.53, the lowest it has been since last July when it also stood at 1.53.

The figures for the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear in the report to be published for next month. Periodically all data are adjusted to benchmark levels as discussed later in the section Description of Survey. The advance report on durable goods for February is scheduled for release on March 21, 1980 and the full report is scheduled for release on April 1, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹										
		Monthly			Quarterly		Monthly				Annual						
							Last 4 months				Last 4 months (a year ago)						
		Jan. 1980 ^b	Dec. 1979 ^a	Nov. 1979	Oct. 1979	IV 1979	III 1979	II 1979	Jan. 1980 ^b	Dec. 1979 ^a	Nov. 1979	Oct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978	1978
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																	
	All manufacturing industries:	151,336	146,384	144,141	145,551	436,076	427,463	415,374	139,232	139,658	143,286	150,754	124,147	126,980	131,499	135,514	1,496,573
	Total, excluding trans- portation.....	136,005	131,638	129,199	130,056	390,893	380,210	366,641	125,471	125,698	127,976	133,933	107,625	111,303	113,931	117,656	1,307,690
	Total for industries with un- filled orders.....	79,680	75,950	75,342	76,711	228,003	225,224	220,310	72,863	73,390	74,937	80,447	65,232	68,393	69,655	71,615	789,416
	Durable goods industries, total.	77,582	74,118	73,657	75,570	223,345	222,013	219,323	70,114	70,347	72,706	78,660	65,767	68,389	70,662	73,238	887,777
	Durable goods with unfilled orders.....	64,139	61,534	60,706	62,006	184,246	181,710	177,984	58,379	59,377	60,066	63,949	52,735	55,785	56,351	57,818	722,730
	Nondurable goods industries, total.....	73,754	72,266	70,484	69,981	212,731	205,450	196,051	69,118	69,311	70,580	72,094	58,380	58,591	60,837	62,276	698,515
	Nondurable goods with unfilled orders.....	15,541	14,416	14,636	14,705	43,757	43,514	42,326	14,484	14,013	14,871	16,498	12,497	12,608	13,304	13,797	152,189
MARKET CATEGORIES AND SUPPLEMENTAL SERIES																	
	Market categories:	11,253	11,123	10,765	10,965	32,833	32,041	30,844	9,886	9,766	11,237	12,189	8,589	8,568	10,415	11,128	114,547
	Home goods and apparel.....	25,846	26,669	25,946	25,623	78,238	75,587	73,006	24,203	26,071	26,341	26,830	22,084	23,027	23,516	24,062	268,237
	Equipment and defense pro- ducts, except automotive.....	21,360	21,089	20,002	20,365	61,456	60,724	57,428	19,105	21,743	19,467	20,714	16,801	18,889	17,655	18,130	203,025
	Automotive equipment.....	11,382	10,934	11,233	12,121	34,288	35,530	38,260	10,458	9,537	11,482	13,306	13,394	12,022	14,240	14,940	153,752
	Construction materials, sup- plies, and intermediate products.....	13,614	12,643	12,843	13,068	38,554	37,726	36,661	11,280	11,423	12,543	13,637	9,482	10,790	11,505	11,924	130,079
	Other materials and supplies and intermediate products....	67,901	63,926	63,352	63,429	190,707	185,855	179,175	64,320	61,118	62,216	64,078	53,797	53,684	54,169	55,329	626,934
	Supplementary series: ²	4,916	4,736	4,812	4,966	14,514	14,035	13,801	4,385	4,384	4,957	5,485	3,801	4,124	4,586	4,976	51,453
	Household durable goods indus- tries.....	24,088	23,402	22,734	23,100	69,236	68,115	65,167	21,667	24,205	22,434	23,416	19,370	21,656	20,434	20,677	233,405
	Capital goods industries.....	20,928	20,223	19,598	20,095	59,916	59,412	56,385	18,884	20,804	19,344	20,355	16,793	18,634	17,733	17,944	200,895
	Nondefense.....	3,160	3,179	3,136	3,005	9,320	8,703	8,782	2,783	3,401	3,090	3,061	2,577	3,023	2,702	2,733	32,512
	Defense.....																
INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries:	4,581	4,133	4,190	4,246	12,569	12,193	12,046	3,863	3,576	4,132	4,552	3,147	3,389	3,855	4,176	43,888
32	Stone, clay, and glass products.....	366	344	375	372	1,091	982	976	324	310	354	360	287	291	302	321	3,989
322	Glass containers.....																
33	Primary metals, total.....	12,633	11,787	11,825	12,088	35,700	35,228	34,271	11,873	10,699	11,203	12,073	10,350	10,397	10,467	10,918	120,390
331	Blast furnaces, steel mills.....	5,629	5,480	5,746	5,895	17,121	17,512	16,787	5,550	4,927	5,321	5,754	5,186	5,277	5,068	5,445	60,533
333-9	Nonferrous and other primary metals.....	5,748	5,135	4,994	5,081	15,210	14,433	14,134	5,179	4,750	4,809	5,131	4,138	4,103	4,290	4,321	47,455
34	Fabricated metal prod., total.	9,541	9,211	9,221	9,310	27,742	27,158	27,073	8,593	8,607	9,031	9,683	7,933	8,399	8,489	8,599	96,212
341	Metal cans, barrels, and drums.....	886	809	863	826	2,498	2,444	2,492	725	657	714	806	688	724	694	784	9,562
35	Machinery, except electrical, total.....	13,968	13,662	13,078	13,905	40,645	40,464	38,679	12,865	13,742	12,527	13,911	11,120	12,495	11,686	12,312	137,119
351	Engines and turbines.....	1,186	935	1,071	1,245	3,251	3,377	3,326	1,121	969	1,006	1,163	1,013	1,019	1,009	1,058	12,044
352	Farm machinery and equipment	1,140	1,184	1,028	1,124	3,336	3,835	3,264	1,085	984	828	1,222	870	802	798	1,067	13,156
353	Construction, mining, and material handling equipment	2,795	2,705	2,391	2,841	7,937	8,292	7,851	2,627	2,502	2,279	2,799	2,326	2,446	2,426	2,609	28,274
354	Metalworking machinery.....	837	780	882	875	2,537	2,474	2,474	755	846	841	865	755	742	694	705	9,497
356	General industrial machinery	1,266	1,118	1,136	1,234	3,488	3,287	3,171	1,127	1,144	1,098	1,265	954	977	959	1,023	11,205

See footnotes at end of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly				Without seasonal adjustment ¹								Annual	
		Monthly					Quarterly				Monthly								Annual	
		Monthly					Quarterly				Monthly								Annual	
		Jan. 1980 ²	Dec. 1979 ³	Nov. 1979	Oct. 1979	IV 1979	III 1979	II 1979	I 1979	Jan. 1980 ²	Dec. 1979 ³	Nov. 1979	Oct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978	1979	1978	
INDUSTRY GROUPS, AND INDUSTRIES--Continued																				
36	Electrical machinery, total...	10,088	9,746	9,495	9,375	28,616	27,685	27,300	9,204	9,720	9,614	9,790	8,128	8,695	8,699	8,967	110,713	98,661		
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,733	1,592	1,712	1,683	4,987	4,947	5,006	1,624	1,534	1,696	1,720	1,559	1,478	1,506	1,559	19,915	17,632		
363	Household appliances.....	1,296	1,159	1,108	1,127	3,394	3,208	3,162	1,079	1,064	1,043	1,162	859	924	937	1,065	12,814	12,057		
365	Radio and TV.....	606	585	580	580	1,745	1,786	2,072	498	606	698	703	583	674	803	791	7,648	7,325		
366	Communication equipment.....	2,801	2,792	2,825	2,792	8,704	8,088	7,646	2,596	3,183	2,797	2,769	2,281	2,593	2,423	2,385	32,143	27,436		
367	Electronic components.....	1,698	1,577	1,521	1,507	4,605	4,623	4,426	1,625	1,563	1,557	1,578	1,243	1,308	1,329	1,330	17,820	14,949		
37	Transportation equipment, total.....	15,331	14,746	14,942	15,495	45,183	47,253	48,733	13,761	13,960	15,310	16,821	16,522	15,677	17,568	17,858	194,461	188,883		
371	Motor vehicles and parts.....	9,373	9,013	9,434	10,251	28,698	30,209	33,216	8,824	8,003	9,838	11,338	11,748	10,566	12,532	12,987	129,364	132,207		
372,6	Aircraft, missiles, and parts.....	3,806	3,790	3,648	3,473	10,911	11,730	10,539	3,115	4,049	3,684	3,607	3,210	3,558	3,404	3,136	43,804	37,542		
3731	Shipbuilding and military tank vehicles.....	912	865	754	762	2,361	2,177	2,072	796	946	763	829	602	751	696	706	8,693	7,872		
3795	Instruments and related products, total.....	3,381	3,247	3,205	3,089	9,541	9,154	8,864	3,064	3,248	3,304	3,242	2,509	2,741	2,841	2,857	36,253	31,560		
381-4	Scientific and engineering.....	1,977	1,953	1,839	1,768	5,560	5,301	5,164	1,876	1,928	1,837	1,824	1,526	1,573	1,583	1,591	18,140	17,082		
386	Photographic goods.....	1,226	1,104	1,153	1,118	3,375	3,222	3,089	1,024	1,151	1,247	1,181	824	1,018	1,070	1,048	12,757	11,245		
24	All other durable goods industries.....	8,059	7,586	7,701	8,062	23,349	22,878	22,357	6,911	6,795	7,585	8,588	6,058	6,595	7,057	7,551	90,885	81,334		
25	Nondurable goods industries:																			
20	Food and kindred products, total.....	19,953	20,729	20,273	20,113	61,115	59,231	57,486	18,872	20,352	20,518	20,883	17,507	18,473	18,547	18,981	234,828	211,921		
201	Meat products.....	4,955	5,286	5,215	5,109	15,610	14,895	15,524	4,885	5,292	5,163	5,262	4,990	5,211	5,092	5,201	62,002	57,087		
208	Beverages.....	2,583	2,426	2,402	2,328	7,156	6,966	6,788	2,146	2,215	2,438	2,450	1,794	1,979	2,047	2,141	27,659	24,710		
207	Fats and oils.....	1,623	1,611	1,623	1,670	4,904	5,068	4,611	1,597	1,558	1,666	1,667	1,562	1,529	1,481	1,504	19,322	16,763		
203-6,9	All other foods.....	8,004	8,631	8,270	8,319	25,220	23,989	22,607	7,515	8,554	8,452	8,793	6,778	7,283	7,396	7,614	93,878	84,934		
21	Tobacco products.....	1,051	1,027	1,055	1,055	3,137	3,212	2,834	991	1,052	1,078	1,097	991	941	1,014	1,043	12,173	10,941		
22	Textile mill products.....	4,148	3,925	3,961	4,039	11,925	11,936	11,757	3,760	3,786	4,059	4,301	3,519	3,491	3,783	3,990	46,992	43,951		
26	Paper and allied products, total.....	6,147	5,492	5,585	5,641	16,718	17,016	16,504	5,833	5,156	5,540	5,745	4,737	4,573	5,061	5,157	66,033	57,654		
261-3	Pulp, paper, etc.....	2,784	2,623	2,607	2,598	7,828	7,692	7,516	2,668	2,488	2,587	2,685	2,123	2,085	2,201	2,223	30,165	25,343		
265	Paperboard containers.....	1,401	1,214	1,240	1,257	3,711	3,650	3,423	1,317	1,110	1,229	1,325	1,110	1,037	1,126	1,205	14,557	13,091		
264	All other paper containers.....	1,962	1,655	1,738	1,786	5,179	5,674	5,365	1,848	1,558	1,724	1,735	1,504	1,451	1,734	1,729	21,311	19,220		
28	Chemicals and allied products, total.....	13,996	13,710	13,159	12,864	39,733	37,967	36,548	12,849	12,533	12,515	12,759	10,782	10,425	10,435	10,704	149,181	126,445		
281,6	Industrial chemicals, except pigments.....	4,821	4,598	4,487	4,454	13,739	13,372	12,687	4,590	4,331	4,425	4,312	3,777	3,671	3,535	3,605	51,793	42,415		
283,4	Drugs, soap, and toiletries.....	3,561	3,761	3,475	3,389	10,625	10,270	9,737	3,326	3,502	3,406	3,603	2,961	2,875	2,932	3,063	40,147	34,101		
29	Petroleum and coal products.....	13,773	13,279	12,803	12,419	38,501	35,143	31,246	13,662	13,489	12,779	12,302	9,252	9,464	9,074	8,899	134,041	103,562		
30	Rubber and plastics products, n.e.c.....	4,076	3,589	3,618	3,774	10,981	11,242	11,148	3,698	3,279	3,532	3,947	3,337	3,021	3,461	3,642	44,742	39,930		
23	All other nondurable goods industries.....	10,610	10,515	10,030	10,076	30,621	29,703	28,528	9,453	9,664	10,559	11,060	8,255	8,204	9,462	9,859	116,234	104,107		

¹Preliminary. ²Revised.³Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.⁴The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--The capital goods industries series is comparable to the previous Producers' Capital goods and the Defense Products (old series) categories.

Nondurable products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the NA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 2.--VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

Millions of dollars¹

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹										
		Monthly			Quarterly		Monthly				Annual						
		Jan. 1980 ²	Dec. 1979 ³	Nov. 1979	Oct. 1979	IV 1979	III 1979	II 1979	Last 4 months				Last 4 months a year ago				
									Jan. 1980 ²	Dec. 1979	Nov. 1979	Oct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978	
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																	
All manufacturing industries:	155,137	149,758	146,569	146,640	442,967	430,326	425,195	144,771	142,086	144,297	153,346	132,056	130,517	136,066	142,776	1,732,015	1,541,861
Total, excluding transportation, excluding industries with unfilled orders:	138,788	132,368	130,228	130,954	393,550	379,899	370,268	129,261	126,056	127,956	134,085	113,213	113,544	114,954	119,654	1,515,492	1,331,442
Durable goods industries:	83,481	79,324	77,770	77,800	234,894	228,087	230,131	78,402	75,818	75,948	83,039	73,141	71,929	74,222	78,876	934,102	834,704
Total, excluding industries with unfilled orders:	81,495	77,751	75,417	76,663	229,831	224,134	228,946	75,500	73,106	73,197	81,256	73,762	71,899	75,125	80,552	926,580	841,739
Nondurable goods industries:	68,052	65,167	62,466	63,099	190,732	183,831	187,607	63,765	62,136	60,557	66,545	60,730	59,295	60,814	65,132	761,533	680,909
Total, excluding industries with unfilled orders:	73,642	72,007	71,152	69,977	213,136	206,192	196,249	69,271	68,980	71,100	72,090	58,294	58,617	60,941	62,224	805,435	700,121
Industries with unfilled orders:	15,429	14,157	15,304	14,701	44,162	44,256	42,524	14,637	13,682	15,391	16,494	12,411	12,634	13,408	13,744	172,569	153,795
Industries without unfilled orders:	58,213	57,850	55,848	55,276	168,974	161,936	153,725	54,634	55,298	55,709	55,596	45,883	45,983	47,533	48,480	632,866	546,326
MARKET CATEGORIES AND SUPPLEMENTARY SERIES																	
Market categories:	11,314	10,997	10,689	10,765	32,451	31,996	31,017	9,932	9,479	10,868	11,822	8,721	8,367	10,054	10,697	126,005	114,547
Home goods and apparel:	25,789	26,671	25,919	25,605	78,195	75,599	73,062	24,194	26,060	26,317	26,817	22,136	23,021	23,522	24,048	298,939	268,264
Equipment and defense products, except automotive:	23,829	23,630	22,165	20,726	66,521	62,835	61,681	21,959	23,988	20,849	23,109	18,377	20,100	20,167	23,311	258,447	226,205
Automotive equipment:	10,992	10,918	10,736	11,825	33,479	34,942	38,072	10,256	9,410	11,039	12,900	13,507	12,463	14,649	15,205	149,571	155,910
Construction materials, supplies, and intermediate products:	13,348	12,915	12,602	12,773	38,290	37,648	36,821	11,154	11,660	12,307	13,266	9,743	11,240	11,319	11,981	149,383	131,384
Other materials and supplies and intermediate products:	69,845	64,627	64,458	64,946	194,031	187,306	184,542	67,276	61,489	62,917	65,432	59,172	55,323	56,358	57,532	749,670	645,552
Supplementary series: ²																	
Household durable goods industries:	5,076	4,651	4,642	4,714	14,007	13,932	13,907	4,453	4,194	4,561	5,080	3,914	3,978	4,285	4,551	55,939	51,456
Capital goods industries:	26,803	26,636	25,438	24,012	76,086	72,350	72,813	25,094	26,420	24,221	26,987	22,527	23,044	24,100	27,101	399,216	261,400
Nondefense:	23,222	22,860	21,419	20,999	65,278	62,784	63,485	21,428	22,571	20,467	22,560	19,679	18,895	19,939	22,092	259,721	219,693
Defense:	3,581	3,776	4,019	3,013	10,808	9,567	9,328	3,666	3,849	3,776	4,427	2,848	4,150	4,162	5,009	39,495	41,706
INDUSTRY GROUPS AND INDUSTRIES																	
Durable goods industry:	4,647	4,156	4,144	4,079	12,379	12,279	12,223	4,035	3,562	4,072	4,325	3,204	3,570	3,783	4,162	48,145	44,164
Stone, clay and glass:	13,576	11,415	11,554	12,315	35,284	33,351	34,710	13,464	10,903	10,932	11,880	13,497	11,341	10,866	11,571	142,882	128,002
Primary metals, total:	5,943	4,990	5,476	5,665	16,131	15,262	16,735	6,249	4,654	5,174	5,349	7,574	5,464	5,481	5,815	69,121	65,307
Blast furnaces, steel mills, nonferrous and other primary metal products:	6,308	5,244	4,988	5,440	15,672	14,822	14,464	5,951	5,205	4,675	5,297	4,786	4,754	4,160	4,537	59,802	49,500
Fabricated metal products:	9,348	9,641	9,035	9,503	28,179	27,007	27,391	8,454	8,964	8,758	9,690	8,504	8,868	8,529	8,702	111,622	99,016
Machinery, except electrical, engines and turbines:	14,910	14,130	13,816	14,102	42,048	40,489	39,414	13,828	13,802	13,093	14,245	12,126	12,782	12,272	13,244	163,304	142,863
Construction, mining, and material handling equipment:	1,360	892	1,091	1,186	3,169	3,228	3,261	1,167	1,081	888	1,256	910	1,273	903	1,350	13,174	12,010
Working machinery:	3,033	2,956	2,315	3,139	8,410	8,276	7,767	2,932	2,734	2,228	3,029	2,574	2,592	2,553	2,604	32,301	29,376
Metalworking machinery:	1,224	877	935	1,040	2,852	3,118	2,697	987	867	951	1,025	781	784	918	1,188	11,486	9,681
General industrial machinery:	1,366	965	1,206	1,205	3,376	3,248	3,365	1,240	977	1,096	1,193	976	894	948	1,104	13,491	11,292

See footnotes at end of table.

Table 2.--VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹										Annual	
		Monthly					Quarterly					Monthly											
		Jan. 1980 ²	Dec. 1979 ²	Nov. 1979	Oct. 1979	IV 1979	III 1979	II 1979	Last 4 months				Last 4 months				Last 4 months				1979	1978	
									Jan. 1980 ²	Dec. 1979 ²	Nov. 1979	Oct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978	Jan. 1978	Dec. 1977	Nov. 1977	Oct. 1977			
INDUSTRY GROUPS AND INDUSTRIES--Continued																							
36	Electrical machinery, total.....	10,838	10,073	9,720	9,661	29,456	28,496	28,639	9,985	9,837	9,837	9,387	10,047	8,834	9,026	8,713	9,377	115,785	103,216				
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,698	1,660	1,705	1,782	5,147	5,048	5,382	1,665	1,519	1,519	1,644	1,795	1,747	1,408	1,565	1,678	20,653	18,356				
363	Household appliances.....	1,267	1,132	1,108	1,114	3,354	3,123	3,208	1,091	1,057	1,057	1,000	1,115	921	942	891	1,060	12,758	12,095				
365	Radio and TV.....	625	541	572	351	1,464	1,859	1,913	477	587	587	622	466	509	703	634	500	7,445	7,577				
366	Communication equipment.....	3,315	3,254	2,921	2,901	9,076	8,365	8,003	3,168	3,282	3,282	2,693	3,166	2,499	2,783	2,422	2,828	34,076	29,346				
367	Electronic components.....	1,992	1,768	1,658	1,845	5,271	5,006	5,080	1,839	1,660	1,660	1,614	1,666	1,614	1,477	1,504	1,481	20,416	16,655				
37	Transportation equipment, total.....	16,349	17,390	16,341	15,686	49,417	50,427	54,927	15,510	16,030	16,030	16,341	19,261	18,843	16,973	21,112	23,122	216,523	210,419				
372,6	Aircraft, missiles, and parts.....	5,234	6,537	5,405	3,944	15,886	14,879	17,101	5,046	6,286	6,286	5,158	6,338	4,737	4,427	6,881	6,183	65,796	53,503				
3731	Shipbuilding and military tank vehicles.....	796	1,060	749	732	2,541	2,370	2,031	856	989	989	700	955	605	475	308	2,606	8,964	9,446				
38	Instruments and related products.....	3,614	3,340	3,198	3,173	9,711	9,336	9,083	3,241	3,359	3,359	3,244	3,290	2,621	2,914	2,832	2,946	37,149	32,654				
2-25	All other durable goods industries.....	8,213	7,606	7,609	8,144	23,359	22,749	22,559	6,983	6,649	6,649	7,370	8,518	6,133	6,426	7,018	7,428	91,170	81,407				

Preliminary.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; Kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; optical goods, watches, and clocks and miscellaneous personal goods.

Capital goods industries - The capital goods industries is comparable to the previous producers' Capital Goods and the Defense Products - old series categories.

Nondefense products--Machinery, except electrical excluding farm machinery and equipment and machine shops; electrical machinery excluding household appliances, radio and TV and electronic components, and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENT SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Quarterly					Monthly									
		Jan. 1980 ^b	Dec., 1979 ^c	Nov., 1979	Oct., 1979	III 1979	II 1979	I 1979	IV 1978	III 1978	Last 4 months					Last 4 months (a year ago)					
									Jan., 1980 ^b	Dec., 1979	Nov., 1979	Oct., 1979	Jan., 1979	Dec., 1978	Nov., 1978	Oct., 1978					
	ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																				
	All manufacturing industries: Total.....	282,642	278,846	275,471	273,047	271,946	269,086	259,267	238,652	222,368	282,690	277,153	274,721	273,707	245,032	237,134	233,600	229,031			
	Total, excluding trans- portation.....	178,878	176,099	175,370	174,347	173,440	173,753	170,129	157,742	150,641	177,499	173,713	173,347	173,363	161,336	155,758	153,520	152,496			
	Durable goods industries, total.....	270,980	267,071	263,435	261,679	260,576	258,457	248,839	228,181	212,101	271,162	265,777	263,015	262,521	234,957	226,975	223,466	219,003			
	Nondurable goods industries, total.....	11,662	11,775	12,036	11,368	11,370	10,629	10,428	10,471	10,267	11,528	11,376	11,706	11,186	10,075	10,159	10,134	10,028			
	MARKET CATEGORIES AND SUPPLEMENTARY SERIES																				
	Market categories:																				
	Home goods and apparel.....	4,562	4,538	4,665	4,767	4,963	5,001	4,771	4,108	4,613	4,261	4,223	4,515	4,907	4,090	3,906	4,112	4,467			
	Consumer staples.....																				
	Equipment and defense prod- ucts, except automotive.....	156,788	154,691	152,163	150,500	150,430	148,905	144,844	134,669	125,074	157,908	155,241	153,125	152,182	137,083	134,991	133,339	130,419			
	Automotive equipment.....																				
	Construction materials, sup- plies, and intermediate prods. Other materials and supplies and intermediate products....	20,505	20,772	20,499	20,741	21,037	21,114	20,955	20,195	19,746	20,522	20,648	20,411	20,648	20,330	20,069	19,619	19,804			
	Supplementary series: ²																				
	Household durable goods indus- tries.....	3,568	3,408	3,494	3,663	3,914	4,020	3,915	3,347	3,796	3,267	3,199	3,385	3,780	3,305	3,193	3,338	3,639			
	Capital goods industries.....	181,769	179,055	175,818	173,117	172,199	167,963	160,318	147,787	136,747	182,778	179,356	177,142	175,353	151,098	147,951	146,563	142,898			
	Nondefense.....	133,857	131,563	128,925	127,107	126,199	122,825	115,730	104,225	97,248	134,105	131,567	129,800	128,695	107,043	104,167	103,906	101,701			
	Defense.....	47,912	47,492	46,893	46,010	46,000	45,138	44,588	43,563	39,499	48,673	47,789	47,342	46,658	44,055	43,785	42,657	41,197			
	INDUSTRY GROUPS AND INDUSTRIES																				
	Durable goods industry:																				
32	Stone, clay and glass.....	2,971	2,904	2,880	2,928	3,096	3,009	2,832	2,943	2,737	2,950	2,778	2,792	2,852	2,872	2,816	2,635	2,707			
33	Primary metals, total.....	30,550	29,607	29,981	30,252	30,024	31,902	31,463	26,738	24,844	30,329	28,737	28,534	28,806	29,126	25,980	25,036	24,637			
331	Blast furnaces, steel mills.....	18,004	17,690	18,181	18,450	18,680	20,930	20,982	17,179	16,311	17,770	17,071	17,344	17,491	19,000	16,612	16,425	16,012			
333-6, 9	Nonferrous and other primary metal products.....	9,855	9,295	9,187	9,193	8,833	8,445	8,115	7,443	6,729	9,835	9,063	8,608	8,743	7,912	7,264	6,613	6,743			
34	Fabricated metal products.....	28,062	28,257	27,828	28,013	27,818	27,970	27,652	26,094	25,144	28,054	28,193	27,836	28,108	26,605	26,034	25,565	25,526			
35	Machinery, except electrical, total.....	59,671	58,729	58,260	57,524	57,323	57,296	56,565	53,037	50,860	59,326	58,343	58,279	57,711	53,732	52,726	52,441	51,855			
351	Engines and turbines.....	16,842	16,667	16,709	16,689	16,747	16,896	16,963	16,649	16,380	16,874	16,828	16,714	16,832	16,706	16,809	16,555	16,661			
353	Construction, mining, and material handling equip- ment.....	8,687	8,449	8,199	8,275	7,977	7,993	8,078	7,957	7,624	8,660	8,356	8,125	8,175	8,117	7,869	7,723	7,596			
354	Metalworking machinery.....	7,459	7,072	6,975	6,922	6,756	6,111	5,699	5,100	4,738	7,347	7,114	7,093	6,984	5,280	5,125	5,083	4,859			
356	General industrial machinery.....	7,198	7,098	7,251	7,181	7,210	7,249	7,054	6,840	6,730	7,140	7,027	7,193	7,195	6,801	6,778	6,861	6,872			

See footnotes at end of table.

Table 3.--VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry Group	Seasonally adjusted						Without seasonal adjustment 1										
		Monthly			Quarterly			Monthly										
								Last 4 months										
		Jan. 1980 ²	Dec. 1979 ²	Nov. 1979	Oct. 1979	III 1979	II 1979	I 1979	IV 1978	III 1978	Jan. 1980 ²	Dec. 1979	Nov. 1979	Oct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978
INDUSTRY GROUPS AND INDUSTRIES--Continued																		
36	Electrical machinery, total...	36,300	35,552	35,224	35,002	34,715	33,906	32,569	30,427	29,094	36,042	35,265	35,148	35,373	30,898	30,201	29,872	29,857
361, 2	Electrical transmission and distribution equipment and apparatus.....	7,498	7,533	7,465	7,474	7,376	7,275	6,900	6,777	6,543	7,444	7,423	7,438	7,490	6,873	6,685	6,755	6,696
363	Household appliances.....	328	358	385	385	397	438	438	619	387	322	310	316	358	423	362	344	390
365	Radio and TV.....	347	328	372	379	608	535	695	525	881	317	339	357	433	469	542	513	68
366	Communication equipment.....	16,651	16,137	15,969	15,875	15,765	15,489	15,132	14,206	13,595	16,777	16,209	16,111	16,214	14,494	14,274	14,084	14,085
367	Electronic components.....	10,529	10,235	10,044	9,907	9,569	9,186	8,532	7,587	6,785	10,255	10,040	9,944	9,887	7,815	7,443	7,274	7,099
37	Transportation equipment, total.....	103,764	102,747	100,101	98,700	98,506	95,333	89,138	80,910	71,727	105,191	103,440	101,374	100,344	83,696	81,376	80,080	76,531
372, 6	Aircraft, missiles, and parts.....	79,321	77,893	75,144	73,386	72,914	69,763	63,199	56,098	49,847	80,742	78,810	76,575	75,102	58,339	56,813	55,944	52,467
3731	Shipbuilding and military tank vehicles.....	11,163	11,279	11,065	11,069	11,098	10,906	10,947	11,005	9,682	11,125	11,064	11,023	11,086	10,798	10,795	11,071	11,459
3795																		
38	Instruments and related products.....	6,225	5,992	5,898	5,905	5,823	5,640	5,423	5,091	4,771	6,144	5,967	5,855	5,916	5,182	5,071	4,896	4,906
25	All other durable goods industries.....	3,437	3,283	3,263	3,355	3,271	3,401	3,197	2,939	2,925	3,126	3,054	3,197	3,411	2,866	2,771	2,941	2,980
39																		

¹ Preliminary. ² Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

³ The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories. Non-defense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

⁴ Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical Government purchasing patterns. Therefore, beginning in July 1977, new composite seasonal factors were developed by combining the existing end of fiscal year information with data for the previous calendar quarter (i.e., one quarter preceding the end of the fiscal year). These composite factors were applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Similar adjustments could not be made for nondefense Government orders since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

(Billions of dollars)

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Quarterly					Monthly									
		Jan. 1980 ^a	Dec. 1979	Nov. 1979	Oct. 1979	III 1979	II 1979	I 1979	IV 1978	III 1978	Last 4 months					Last 4 months (a year ago)					
									Jan. 1980 ^b	Dec., 1979	Nov., 1979	Oct., 1979	Jan. 1979	Dec., 1978	Nov., 1978	Oct., 1978					
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																					
	All manufacturing industries:	232,029	227,855	226,159	223,450	221,417	214,339	205,589	198,041	193,764	233,581	227,658	225,134	222,296	202,336	197,979	195,872	193,459			
	Total.....	201,580	198,014	196,041	193,985	192,883	186,949	179,872	173,910	170,051	203,047	198,216	194,898	192,623	177,229	174,105	171,688	169,796			
	Total for industries with unfilled orders.....	160,396	157,667	156,524	154,325	152,443	147,983	141,413	135,198	132,402	160,434	156,529	155,154	153,073	137,711	134,277	133,221	131,635			
	Durable goods industries, total.	153,756	151,376	150,332	148,042	145,927	141,700	135,278	129,226	126,108	154,049	150,321	148,857	146,672	132,053	128,405	127,196	125,548			
	Durable goods with unfilled orders.....	142,721	140,286	139,333	137,235	135,529	131,310	125,339	119,540	116,938	142,915	139,439	138,341	136,339	122,128	118,875	117,983	116,516			
	Nondurable goods industries, total.....	78,273	76,479	75,827	75,408	75,490	72,639	70,311	68,816	67,657	79,532	77,337	76,277	75,624	70,283	69,574	68,676	67,911			
	Nondurable goods with unfilled orders.....	17,675	17,381	17,191	17,090	16,914	16,673	16,074	15,658	15,464	17,519	17,090	16,813	16,734	15,583	15,402	15,238	15,119			
MARKET CATEGORIES AND SUPPLEMENTAL SERIES																					
	Market categories:																				
	Home goods and apparel.....	17,915	17,510	17,326	17,293	17,501	17,398	17,573	16,966	16,862	17,588	16,960	16,634	16,825	17,008	16,427	16,157	16,246			
	Consumer staples.....	29,590	29,698	29,503	29,404	29,529	28,780	27,394	26,517	25,714	30,342	30,294	30,309	30,312	27,281	27,081	26,920	26,621			
	Equipment and defense products, except automotive.....	63,036	61,514	60,839	59,527	58,254	55,632	52,542	50,285	48,326	62,925	61,060	60,412	58,937	51,233	49,935	49,089	48,488			
	Automotive equipment.....	10,289	10,299	11,051	11,306	11,199	11,219	11,121	10,071	10,758	10,618	10,369	11,157	11,472	11,028	10,118	10,567	10,225			
	Construction materials, supplies, and intermediate products.....	19,526	19,496	19,341	19,000	18,882	18,982	17,944	16,993	16,566	19,619	19,348	18,861	18,676	17,380	16,866	16,483	16,458			
	Other materials and supplies and intermediate products.....	91,673	89,318	88,099	86,922	86,052	82,328	79,025	77,211	75,541	92,489	89,647	87,761	86,074	78,406	77,552	76,656	75,421			
	Supplementary series:																				
	Household durable goods industries.....	9,331	9,169	8,938	8,866	8,881	8,828	8,831	8,692	8,657	9,164	8,880	8,670	8,646	8,680	8,427	8,376	8,380			
	Capital goods industries.....	70,228	68,527	67,777	66,292	64,990	61,710	58,139	55,170	53,120	69,917	67,927	67,429	65,829	56,307	54,921	54,273	53,571			
	Nondefense.....	60,582	59,076	58,541	57,466	56,471	53,730	50,540	48,203	46,229	60,435	58,666	58,231	57,019	49,016	47,888	47,305	46,581			
	Defense.....	9,646	9,451	9,236	8,826	8,519	7,980	7,599	7,167	6,890	9,482	9,261	9,198	8,810	7,291	7,033	6,968	6,990			
INDUSTRY GROUPS AND INDUSTRIES																					
	Durable goods industries:																				
32	Stone, clay, and glass products.....	5,664	5,577	5,599	5,522	5,445	5,372	5,144	4,826	4,741	5,734	5,541	5,385	5,310	4,994	4,794	4,606	4,525			
322	Glass containers.....	545	540	536	554	575	540	510	501	515	546	536	541	548	497	497	504	506			
33	Primary metals, total.....	19,967	19,905	19,419	19,149	19,065	18,578	17,761	17,962	17,573	20,321	20,153	19,354	19,006	18,161	18,187	17,936	17,499			
331	Blast furnaces, steel mills, nonferrous and other primary metals.....	11,030	10,908	10,672	10,556	10,457	10,260	9,823	9,828	9,379	11,338	11,257	10,747	10,619	10,128	10,142	9,901	9,517			
333-6,9	7,551	7,609	7,338	7,175	7,195	6,908	6,638	6,911	6,976	7,589	7,525	7,243	7,031	6,783	6,836	6,853	6,829			
34	Fabricated metal prod., total.	19,354	19,279	19,223	18,771	18,682	18,584	17,796	16,834	16,378	19,257	18,997	18,845	18,523	17,048	16,616	16,374	16,442			
341	Metal cans, barrels, and drums.....	1,584	1,578	1,546	1,447	1,362	1,380	1,293	1,211	1,204	1,512	1,360	1,317	1,246	1,294	1,045	1,077	1,108			
35	Machinery, except electrical, total.....	37,227	36,502	36,372	35,957	35,525	34,120	32,509	30,925	29,705	37,379	36,530	36,018	35,443	31,582	30,940	30,122	29,665			
351	Engines and turbines.....	2,677	2,701	2,609	2,549	2,632	2,522	2,492	2,461	2,324	2,675	2,689	2,634	2,558	2,444	2,444	2,365	2,368			
352	Farm machinery and equipment	3,097	3,102	3,002	3,010	2,889	2,850	2,694	2,583	2,369	3,168	3,096	2,846	2,805	2,641	2,578	2,327	2,249			
353	Construction, mining, and material handling equipment	8,445	8,134	8,406	8,214	8,107	7,963	7,435	7,037	6,752	8,521	8,289	8,255	8,017	7,276	7,164	6,812	6,800			
354	Metallurgical machinery.....	2,329	2,312	2,252	2,263	2,201	2,203	2,082	1,944	1,882	2,329	2,298	2,266	2,261	2,024	1,932	1,950	1,932			
356	General industrial machinery	3,747	3,661	3,569	3,487	3,527	3,319	3,298	3,191	3,073	3,758	3,606	3,523	3,449	3,269	3,143	3,119	3,062			

See footnotes at end of table.

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)											
		Seasonally adjusted						Without seasonal adjustment ¹					
		Monthly			Quarterly			Monthly					
		Jan. 1980 ²	Oct. 1979 ²	Nov. 1979	Oct. 1979	III 1979	II 1979	I 1979	IV 1978	III 1978	Last 4 months (a year ago)		
		Jan. 1980 ²	Oct. 1979 ²	Nov. 1979	Oct. 1979	III 1979	II 1979	I 1979	IV 1978	III 1978	Jan. 1979	Dec. 1978	Nov. 1978
36	Electrical machinery, total...	20,999	20,585	20,013	19,817	19,486	18,714	18,066	17,066	17,012	20,705	20,241	19,804
361,2	Electrical transmission and distribution equipment and industrial apparatus...	3,819	3,753	3,747	3,730	3,632	3,524	3,365	3,248	3,163	4,112	3,758	3,720
363	Household appliances...	2,078	2,106	1,989	1,982	1,967	1,956	2,025	1,953	2,026	2,070	2,034	1,896
365	Radio and TV...	1,076	1,042	959	958	984	984	1,013	1,031	1,005	1,018	1,005	954
366	Communication equipment...	7,402	7,122	6,896	6,758	6,595	6,129	5,833	5,431	5,401	7,285	7,021	6,803
367	Electronic components...	3,118	3,086	2,988	2,977	2,897	2,850	2,714	2,508	2,531	3,100	3,068	2,976
37	Transportation equipment, total...	30,449	29,881	30,118	29,465	28,534	27,390	25,717	24,131	23,714	30,534	29,511	30,236
371	Motor vehicles and parts...	7,867	7,972	8,639	8,894	8,811	8,857	8,761	7,767	8,500	8,118	7,980	8,812
372,6	Aircraft, missiles, and parts...	18,041	17,400	16,883	16,169	15,481	14,696	13,176	12,593	11,532	17,868	17,102	16,883
3731	Shipbuilding and military tank vehicles...	2,114	2,180	2,265	2,116	2,064	1,675	1,717	1,775	1,833	2,062	2,052	2,221
38	Instruments and related products, total...	8,048	7,713	7,595	7,491	7,456	7,336	7,036	6,468	6,292	8,041	7,580	7,500
381-4	Scientific and engineering...	5,337	5,259	5,199	5,091	5,021	4,799	4,540	4,243	4,098	5,385	5,217	5,142
386	Photographic goods...	2,224	1,971	1,914	1,910	1,926	2,031	1,982	1,752	1,711	2,184	1,885	1,878
25	All other durable goods	11,934	11,934	11,993	11,870	11,734	11,606	11,249	11,014	10,693	12,078	11,768	11,715
39	Industries...	12,068	11,934	11,993	11,870	11,734	11,606	11,249	11,014	10,693	12,078	11,768	11,715
20	Nondurable goods Industries: Food and kindred products, total...	20,308	20,326	19,982	19,871	19,856	19,106	18,119	17,262	16,784	21,119	21,024	21,096
201	Meat products...	1,937	1,990	1,872	1,844	1,753	1,716	1,650	1,673	1,568	1,934	1,869	1,896
208	Beverages...	3,755	3,869	3,756	3,688	3,679	3,614	3,478	3,453	3,268	3,823	3,830	3,745
207	Fats and oils...	1,912	1,888	1,840	1,867	1,704	1,605	1,598	1,437	1,384	2,115	2,141	2,100
203-6,9	All other foods...	10,980	10,875	10,871	10,814	11,070	10,590	9,896	9,308	9,311	11,594	11,538	11,708
21	Tobacco products...	3,576	3,523	3,605	3,693	3,746	3,716	3,586	3,619	3,649	3,791	3,727	3,652
22	Textile mill products...	5,923	5,848	5,795	5,746	5,686	5,645	5,718	5,666	5,606	5,911	5,694	5,611
26	Paper and allied products, total...	6,864	6,779	6,615	6,538	6,422	6,344	6,045	5,875	5,839	6,880	6,722	6,566
261-3	Pulp, paper, etc...	2,346	2,321	2,258	2,198	2,137	2,090	2,053	2,006	2,005	2,343	2,313	2,236
265	Paperboard containers...	1,925	1,899	1,847	1,809	1,843	1,785	1,752	1,710	1,710	1,905	1,863	1,830
264	All other paper containers...	2,593	2,559	2,510	2,531	2,442	2,469	2,240	2,159	2,123	2,632	2,546	2,500
28	Chemicals and allied products, total...	17,827	16,978	16,847	16,610	16,582	15,901	15,548	15,429	15,235	18,195	17,280	16,822
281,6	Industrial chemicals, except pigments...	5,878	5,277	5,070	5,038	5,021	4,677	4,482	4,591	4,590	6,002	5,398	5,100
283,4	Drugs, soap, and toiletries...	5,127	5,317	5,339	5,281	5,247	5,196	4,992	4,858	4,731	5,107	5,312	5,307
29	Petroleum and coal products...	7,028	6,660	6,527	6,400	6,354	5,347	5,063	5,423	5,408	7,059	6,816	6,686
30	Rubber and plastics products, n.e.c...	4,803	4,750	4,797	4,818	4,962	4,870	4,707	4,602	4,563	4,912	4,804	4,698
23	All other nondurable goods	11,944	11,615	11,659	11,732	11,882	11,710	11,525	10,939	10,773	11,665	11,270	11,146
31	Industries...	11,944	11,615	11,659	11,732	11,882	11,710	11,525	10,939	10,773	11,665	11,270	11,146

¹ Preliminary.² Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries: household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances: radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries: The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MC-175, Shipments of Defense Oriented Industries, for the specified industries.

Table 5.—VALUE OF MANUFACTURES' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP
(Million of dollars)

Industry	Seasonally adjusted										Without seasonal adjustment									
	Monthly					Quarterly					Monthly					Monthly				
	Jan. 1980 ^a	Dec. 1979 ^a	Nov. 1979	Oct. 1979	III 1979	II 1979	I 1979	IV 1978	III 1978	TOTAL	Jan. 1980 ^a	Dec. 1979 ^a	Nov. 1979	Oct. 1979	Dec. 1978	Nov. 1978	Oct. 1978			
All manufacturing industries, total...	217,029	227,855	226,159	223,650	221,417	216,339	205,589	198,061	193,766	233,581	227,658	225,116	222,296	202,336	197,979	195,872	193,459			
Durable goods industries, total...	153,756	151,376	150,332	148,062	145,927	141,700	135,278	129,226	126,108	159,049	150,121	148,857	146,672	132,053	128,405	127,196	125,568			
Stone, clay, and glass products...	5,666	5,576	5,599	5,522	5,465	5,372	5,164	4,826	4,761	5,736	5,736	5,736	5,310	4,996	4,796	4,606	4,525			
Primary metals...	19,967	19,905	19,419	19,169	19,065	18,578	17,761	17,962	17,573	20,321	20,151	19,355	19,006	18,161	18,187	17,936	17,499			
Fabricated metals...	19,136	19,270	19,223	18,721	18,682	18,586	17,796	16,856	16,737	19,705	19,557	18,865	18,523	17,068	16,616	16,376	16,466			
Nonferrous metals...	36,502	36,502	36,172	35,957	35,525	34,170	32,509	30,925	30,705	37,179	36,930	36,618	35,443	31,582	30,960	30,122	29,665			
Electrical machinery...	20,999	20,585	20,013	19,817	19,486	18,714	18,066	17,066	17,012	20,705	20,261	19,806	19,610	17,779	16,912	16,821	16,821			
Transportation equipment...	10,469	29,881	30,118	29,465	28,534	27,390	25,717	24,111	23,716	29,511	29,511	29,511	29,511	25,107	24,874	24,186	23,663			
Instrument and related products...	8,068	7,713	7,593	7,491	7,456	7,336	7,016	6,668	6,292	8,061	7,880	7,500	7,467	6,629	6,352	6,331	6,331			
All other durable goods industries...	12,068	11,916	11,916	11,870	11,736	11,606	11,269	11,016	10,693	12,078	11,768	11,715	11,600	11,128	10,863	10,732	10,603			
Non-durable goods industries, total...	78,273	76,679	75,827	75,608	75,490	74,639	70,311	68,816	67,657	79,532	77,337	76,277	75,626	70,283	69,576	68,676	67,911			
Chemicals and allied products...	17,827	16,978	16,867	16,610	16,582	15,907	15,548	15,429	15,408	18,195	17,780	16,822	16,609	15,809	15,719	15,233	16,981			
Petroleum and coal products...	7,028	6,600	6,527	6,400	6,354	5,941	5,063	5,423	5,408	7,059	6,816	6,686	6,571	5,403	5,551	5,753	5,632			
Rubber and plastic products, non-durable...	6,803	6,750	6,797	6,818	6,862	6,870	6,402	6,402	6,363	6,912	6,806	6,698	6,703	6,731	6,653	6,626	6,665			
All other non-durable goods industries...	48,091	47,456	47,456	47,580	47,592	46,521	46,993	43,161	42,651	49,166	48,437	48,071	47,961	46,340	43,651	43,266	42,851			
MATERIALS AND SUPPLIES																				
All manufacturing industries, total...	80,688	78,915	78,450	77,111	75,751	73,285	71,282	68,078	67,152	81,202	79,638	78,612	77,217	69,778	68,757	67,673	67,119			
Durable goods industries, total...	49,508	48,818	48,406	47,734	46,182	44,885	41,570	41,468	41,093	49,787	48,963	48,121	47,681	42,291	41,619	41,231	41,005			
Stone, clay, and glass products...	5,279	2,217	2,217	2,157	2,040	2,035	1,960	1,862	1,815	2,200	2,219	2,169	2,115	1,906	1,862	1,819	1,800			
Primary metals...	7,768	7,663	7,296	7,116	6,959	6,751	6,602	6,573	6,505	7,913	7,747	7,666	7,256	6,621	6,819	6,707	6,560			
Fabricated metals...	6,090	6,775	6,758	6,707	6,589	6,529	6,469	6,370	6,587	6,747	6,736	6,579	6,573	5,956	5,999	5,811	5,908			
Nonferrous metals...	10,761	10,725	10,653	10,503	9,979	9,931	9,081	8,680	8,947	10,780	10,768	10,476	10,185	8,813	8,709	8,656	8,597			
Electrical machinery...	6,001	5,925	5,751	5,763	5,668	5,483	5,227	4,965	4,948	5,950	5,906	5,680	5,496	4,927	4,860	4,666	4,896			
Transportation equipment...	8,117	8,104	8,361	8,298	7,977	7,657	7,719	6,967	7,262	8,181	8,166	8,563	8,562	7,465	7,136	7,136	6,896			
Instrument and related products...	2,729	2,988	2,372	2,126	2,276	2,276	2,160	1,883	1,812	2,706	2,799	2,463	2,333	1,965	1,891	1,878	1,818			
All other durable goods industries...	5,161	5,018	5,063	4,962	4,866	4,673	4,312	4,568	4,487	5,210	5,029	4,647	4,551	4,561	4,362	4,366	4,362			
Non-durable goods industries, total...	30,980	30,097	30,044	29,577	29,369	28,640	27,712	26,610	26,059	31,415	30,675	30,111	29,536	27,485	27,118	26,442	26,116			
Chemicals and allied products...	6,149	5,998	6,131	6,017	5,873	5,960	5,796	5,456	5,627	6,126	6,088	5,629	5,591	5,692	5,566	5,516	5,511			
Petroleum and coal products...	1,708	1,692	1,813	1,860	1,774	1,504	1,452	1,336	1,666	1,729	1,700	1,465	1,857	1,106	1,338	1,368	1,366			
Rubber and plastic products, non-durable...	1,806	1,717	1,731	1,762	1,710	1,683	1,519	1,465	1,675	1,799	1,758	1,700	1,713	1,559	1,538	1,488	1,503			
All other non-durable goods industries...	21,117	20,690	20,157	19,978	20,017	19,273	18,868	18,299	17,713	21,601	21,139	20,637	20,013	18,928	18,698	18,070	17,734			
WORK IN PROGRESS																				
All manufacturing industries, total...	79,805	78,525	77,967	76,873	75,718	72,796	68,618	66,166	63,793	79,716	77,669	77,520	76,669	67,097	65,505	65,261	66,610			
Durable goods industries, total...	61,778	66,759	66,096	64,892	63,828	61,461	57,656	55,669	53,326	67,701	65,997	65,591	64,429	56,266	56,870	56,502	53,858			
Stone, clay, and glass products...	779	821	809	817	826	862	771	697	689	784	771	786	773	708	655	618	638			
Primary metals...	6,755	7,072	6,916	6,935	6,945	6,669	6,126	6,168	6,127	6,829	7,012	6,788	6,779	6,401	6,320	6,198	6,128			
Fabricated metals...	8,181	7,983	7,896	7,727	7,696	7,696	7,126	6,646	6,512	8,029	7,789	7,790	7,674	6,824	6,698	6,516	6,626			
Nonferrous metals...	17,161	16,923	16,785	16,602	16,191	15,620	16,985	16,271	13,559	17,291	16,908	16,792	16,533	14,626	16,262	16,097	13,691			
Electrical machinery...	10,131	10,057	9,801	9,616	9,436	8,908	8,491	7,872	7,666	10,085	9,862	9,768	9,602	8,016	7,725	7,851	7,727			
Transportation equipment...	18,703	17,876	17,913	17,215	16,653	15,829	16,362	16,129	13,463	18,616	17,619	17,760	17,107	16,199	16,006	13,926	13,867			
Instrument and related products...	4,117	3,627	3,366	3,322	3,326	3,216	3,128	3,012	2,919	3,503	3,450	3,343	3,312	3,003	2,966	2,953	2,953			
All other durable goods industries...	2,571	2,600	2,558	2,598	2,555	2,681	2,551	2,656	2,389	2,582	2,612	2,596	2,669	2,487	2,461	2,430	2,430			
Non-durable goods industries, total...	12,027	11,766	11,871	11,981	11,890	11,315	10,982	10,717	10,469	12,043	11,672	11,527	12,006	10,831	10,635	10,739	10,752			
Chemicals and allied products...	2,676	2,437	2,575	2,681	2,681	2,476	2,497	2,465	2,462	2,664	2,652	2,587	2,616	2,485	2,443	2,416	2,416			
Petroleum and coal products...	2,148	2,063	2,037	1,989	1,856	1,665	1,487	1,370	1,285	2,093	2,029	2,056	2,013	1,459	1,351	1,393	1,393			
Rubber and plastic products, non-durable...	816	836	854	859	853	836	802	795	765	862	853	866	868	827	816	789	798			
All other non-durable goods industries...	6,389	6,652	6,605	6,501	6,500	6,453	6,196	6,087	6,017	6,614	6,348	6,620	6,561	6,060	5,980	6,084	6,145			
FINISHED GOODS																				
All manufacturing industries, total...	71,736	70,415	69,762	69,266	69,968	68,258	65,669	63,798	62,820	72,665	70,351	69,182	68,610	65,461	63,717	62,958	61,770			
Durable goods industries, total...	46,470	35,799	35,810	35,416	35,717	35,356	34,052	32,309	31,691	36,761	35,361	36,965	36,560	33,916	31,916	31,463	30,685			
Stone, clay, and glass products...	2,606	2,539	2,558	2,528	2,579	2,695	2,433	2,287	2,237	2,650	2,511	2,652	2,622	2,278	2,267	2,169	2,101			
Primary metals...	5,666	5,370	5,209	5,098	5,161	5,158	4,915	5,021	4,941	5,597	5,399	5,102	4,973	4,517	5,080	5,031	4,811			
Fabricated metals...	4,683	4,518	4,569	4,347	4,397	4,359	4,323	4,158	3,769	4,081	4,672	4,676	4,676	4,276	4,119	4,067	3,910			
Nonferrous metals...	9,303	8,856	8,916	8,950	9,2,															

Table 6.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	Dec.- Jan. 1979 1980	Nov.- Dec. 1979	Oct.- Nov. 1979	3 months			12 months Jan. 1979 Jan. 1980	Average rise	Average decline
				Oct. 1979- Jan. 1980	July- Oct. 1979	April- July 1979			
Shipments:									
All manufacturing industries.....	+3.4	+1.6	-1.0	+1.3	+0.9	+1.9	+1.0	+1.7	-1.3
Durable goods industries, total.....	+4.7	+0.6	-2.5	+0.9	+0.9	+1.3	+0.6	+2.0	-2.0
Nondurable goods industries, total.....	+2.1	+2.5	+0.7	+1.8	+0.9	+2.6	+1.4	+1.6	-0.7
Total inventories:									
All manufacturing industries.....	+1.8	+0.8	+1.2	+1.3	+1.0	+1.1	+1.2	+0.7	-0.3
New orders:									
All manufacturing industries.....	+3.6	+2.2	-0.0	+1.9	+1.4	+0.3	+0.8	+2.0	-1.5
Durable goods industries, total.....	+4.8	+3.1	-1.6	+2.1	+1.9	-1.6	+0.3	+3.3	-1.9
Nondurable goods industries, total.....	+2.3	+1.2	+1.7	+1.7	+1.0	+2.5	+1.5	+1.6	-0.7
Unfilled orders:									
Durable goods industries, total.....	+1.5	+1.4	+0.7	+1.2	+0.5	+0.4	+1.2	+1.3	-0.8

Table 7.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Jan.- 1980	Dec.- 1979	Nov.- 1979	Oct.- 1979	Jan.- 1980	Dec.- 1979	Nov.- 1979	Oct.- 1979
All manufacturing industries, total.....	1.53	1.56	1.57	1.54	3.55	3.67	3.66	3.56
Durable goods industries, total.....	1.98	2.04	2.04	1.96	4.22	4.34	4.34	4.22
Stone, clay, and glass products.....	1.24	1.35	1.34	1.30	0.70	0.77	0.75	0.76
Primary metals.....	1.58	1.69	1.64	1.58	2.42	2.51	2.54	2.50
Fabricated metals.....	2.03	2.09	2.08	2.02	3.24	3.36	3.33	3.30
Machinery, except electrical.....	2.67	2.67	2.78	2.59	4.65	4.71	4.83	4.50
Electrical machinery.....	2.08	2.11	2.11	2.11	3.60	3.65	3.71	3.73
Transportation equipment.....	1.99	2.03	2.02	1.90	12.46	12.59	12.48	11.90
Instruments and related products.....	2.38	2.38	2.37	2.43	1.84	1.85	1.84	1.91
Nondurable goods industries, total.....	1.06	1.06	1.08	1.08	0.75	0.82	0.82	0.77
Food and kindred products.....	1.02	0.98	0.99	0.98	(X)	(X)	(X)	(X)
Tobacco products.....	3.40	3.43	3.42	3.50	(X)	(X)	(X)	(X)
Textile mill products.....	1.43	1.49	1.46	1.42	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.12	1.23	1.18	1.16	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.27	1.24	1.28	1.29	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.51	0.50	0.51	0.52	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.18	1.32	1.33	1.28	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

current housing reports

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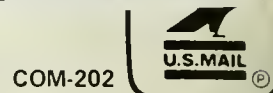
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